

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003522**Date Inspected:** 15-Jul-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:****Bridge No:** 34-0006**Component:** OBG Component**Bid Item:****Lot No:** B278**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector Mr. S. Manjunath Math was present during the time noted above for observations relative to the work being performed.

This QA Inspector observed the following work for Surface Preparation and/or Coating Application work in progress:

Cover Plate, Inspection Request No. 7507

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following items at Coat at Shanghai Port Machinery Plant (SPMP) work shop "F".

Inspection was offered for the Inspecting Surface Preparation, Visual Inspection, Dry Film Thickness (DFT), Residual Chloride Test (Salt Test), Pencil Hardness Test prior to mist coating.

Cover Plate Internal AH3151, AH3152 and AHX8009.

Cover Plate External after Re-blast AHX8009.

Inspection Conclusions: Accepted after performing all the tests by ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

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Bike Path Brackets, Inspection Request No. 7508

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following items at Coat at Zhenhua Port Machinery Company (ZPMC) painting work shop "2".

Inspection was offered for Inspecting the Surface Preparation, Visual Inspection prior to mist coating.

Bike Path Brackets BK18, BK3001, BK3002, BK3003 and BK3003.

Inspection Conclusions: Accepted by ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

Cover Plate, Inspection Request No. 7509

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) west gate of blasting workshop.

Inspection was offered for Degreasing and Cleaning.

Cover Plate SA7524A.

Inspection Conclusions: Accepted by ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

Lift 13 West Bottom Plate, Inspection Request No. 7510

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) North side of Orthotropic Box Girder (OBG) Trial Assembly.

Inspection was offered for the Inspecting Surface Preparation, Visual Inspection, Dry Film Thickness (DFT), MEK Test, Pencil Hardness Test prior to mist coating.

Lift 13 West, Bottom Plate external contact support area and mud crack areas.

Inspection Conclusions: The entire test were Accepted except Ambient Atmosphere (Dew Point and Relative Humidity) was out of Specification thus ABF QA suggested ZPMC not to continue with painting activities until they meets the requirements and Caltrans QA concurred with the ABF QA's Inspection.

Lift 13 West Bottom Plate, Inspection Request No. 7511

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) North side of Orthotropic Box Girder (OBG) Trial Assembly.

Inspection was offered for the Inspecting Surface Preparation, Visual Inspection, Dry Film Thickness (DFT), MEK Test, Pencil Hardness Test prior to mist coating.

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Lift 13 West, Bottom Plate external.

Inspection Conclusions: The entire test were Accepted except Ambient Atmosphere (Dew Point and Relative Humidity) was out of Specification thus ABF QA suggested ZPMC not to continue with painting activities until they meets the requirements and Caltrans QA concurred with the ABF QA's Inspection.

Lift 13 East Bottom Plate, Inspection Request No. 7512

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) North side of Orthotropic Box Girder (OBG) Trial Assembly.

Inspection was offered for the Inspecting Surface Preparation, Visual Inspection, Dry Film Thickness (DFT), MEK Test, Pencil Hardness Test prior to mist coating.

Lift 13 East, Bottom Plate external.

Inspection Conclusions: The entire test were Accepted except Ambient Atmosphere (Dew Point and Relative Humidity) was out of Specification thus ABF QA suggested ZPMC not to continue with painting activities until they meets the requirements and Caltrans QA concurred with the ABF QA's Inspection.

Various Items, Inspection Request No. 7513

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following items at Coat at Zhenhua Port Machinery Company (ZPMC) blasting workshop "2".

Inspection was offered for Inspecting the Surface Preparation prior to primer coating.

Bike Path Panel BK24A-001.

Cover Plate SA7524A – 3 pieces.

Shim Plate re-blast Seg3013 – 96 pieces and Seg2363 – 10 pieces.

Splice re-blast – Seg 3014- 4 pieces, X4252C- 2 pieces, X4252A-2 pieces and X4251E- 3 pieces.

Inspection Conclusions: Accepted after minor grinding and re-blasting by ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

Lift 13 East Bottom Plate, Inspection Request No. 7514

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) North side of Orthotropic Box Girder (OBG) Trial Assembly.

Inspection was offered for the Inspecting Surface Preparation prior to 2nd finish coat.

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Lift 13 East, Bottom Plate external.

Inspection Conclusions: Accepted by the ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

Lift 13 West Bottom Plate, Inspection Request No. 7515

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) North side of Orthotropic Box Girder (OBG) Trial Assembly.

Inspection was offered for the Inspecting Surface Preparation prior to 1st finish coat.

Lift 13 West, Bottom Plate external.

Inspection Conclusions: Accepted by the ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

Cover Plate, Inspection Request No. 7516

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following items at Coat at Shanghai Port Machinery Plant (SPMP) work shop "F".

Inspection was offered for the Inspecting Surface Preparation prior to finish coat.

Cover Plate Internal AH3151, AH3152 and AHX8009.

Inspection Conclusions: Accepted after performing all the tests by ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

Lift 13 West Terminal Diaphragm, Inspection Request No. 7517

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) North side of Orthotropic Box Girder (OBG) Trial Assembly.

Inspection was offered for the Inspecting Surface Preparation prior to primer coat.

Lift 13 West, Cross Beam terminal diaphragm faying surface damaged area re-blast.

Inspection Conclusions: Accepted by the ABF QA and Caltrans QA concurred with the ABF QA's Inspection.

Lift 14 West External Surface, Inspection Request No. 7518

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) Jetty # 5.

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Inspection was offered for the Inspecting Final Acceptance after Final Coat.

Lift 14 West, External Surface.

Inspection Conclusions: Rejected by ABF QA as few locations needs touch painting, grit removal from the paint embedded areas to be removed and Caltrans QA concurred with the ABF QA's Inspection.

Please reference the pictures attached for more comprehensive details.

Lift 14 East External Surface, Inspection Request No. 7521

A joint two party inspection was performed by ABF QA's and Caltrans QA for the following item at Coat at Zhenhua Port Machinery Company (ZPMC) Jetty # 1.

Inspection was offered for the Inspecting Final Acceptance after Final Coat.

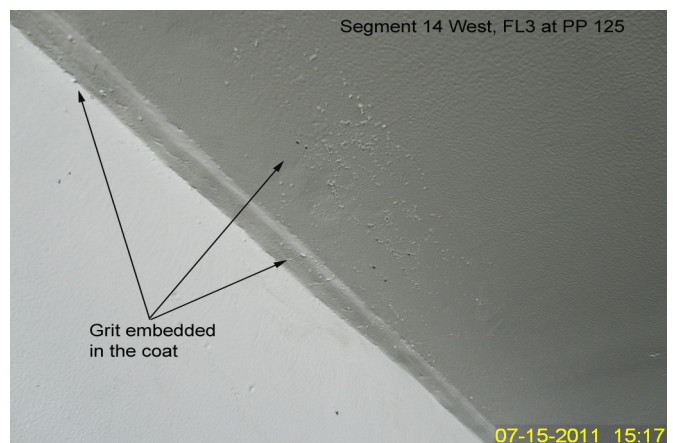
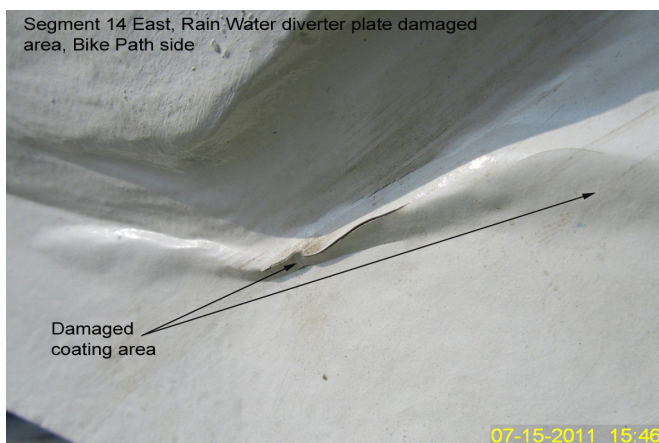
Lift 14 East, External Surface.

Lift 14 East, Internal Concrete embedded area.

Inspection Conclusions: Rejected Lift 14 East, External Surface by ABF QA as few locations needs touch painting, grit removal from the paint embedded areas to be removed, Drip Plate(Rain Diverter Plate) is damaged during handling and got distorted and Accepted Lift 14 East, Internal Concrete embedded area and the Caltrans QA concurred with the ABF QA's Inspection.

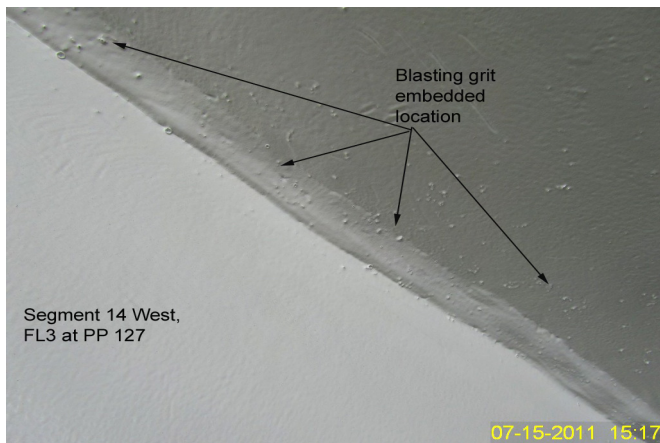
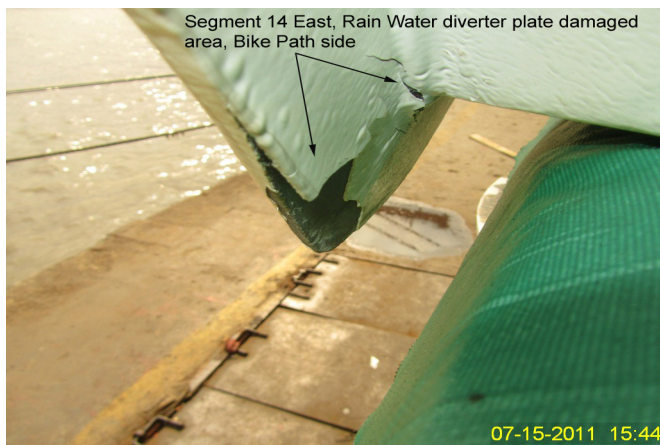
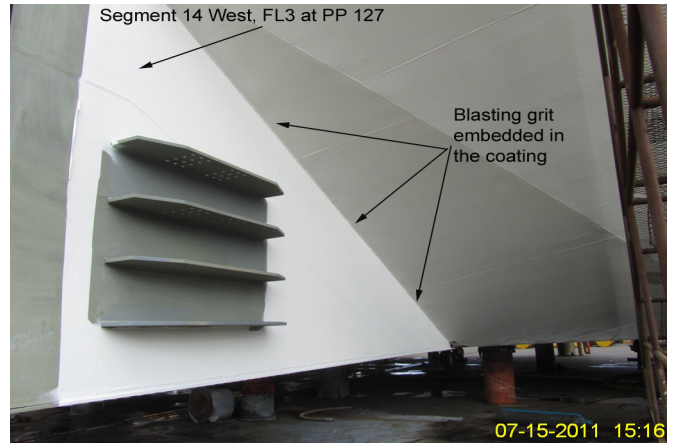
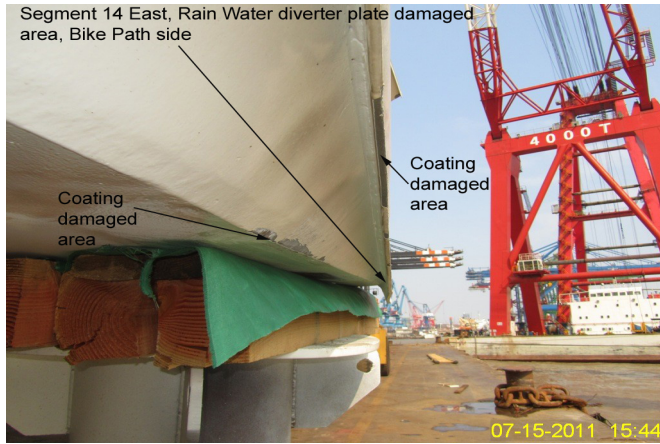
Please reference the pictures attached for more comprehensive details.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



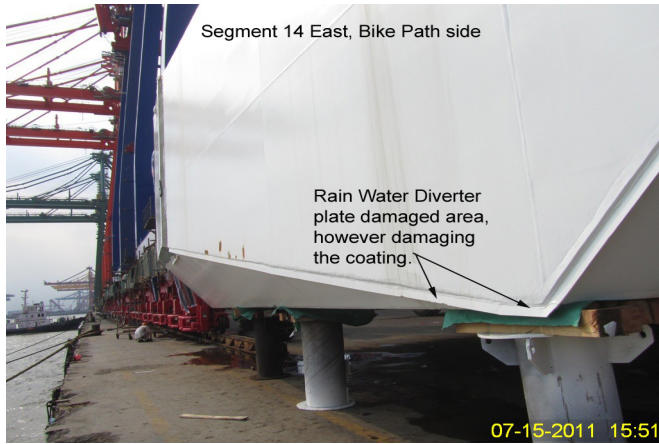
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Summary of Conversations:

No relevant conversation were reported on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By: Math,Manjunath

Quality Assurance Inspector

Reviewed By: Miller,Mark

QA Reviewer